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[PDF] Neural network-based diesel engine emissions prediction using in-cylinder def...

M.L. Travler, R.J. Atkinson, C.M. Atkinson - SAE transactions, 1999 - censr.wsu.edu

... the accuracy of the networks and to provide the software with a means to determine ... The method shows promise for producing a virtual sensor suite capable of predicting accurate ... for engines being operated in circumstances other than those in a transient engine testing cell. ...

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[PDF] Merging virtual objects with the real world: Seeing ultrasound imagery within the...

M. Bajura, H. Fuchs, R. Ohbuchi - ACM SIGGRAPH Computer ..., 1992 - portal.acm.org

... a "transducer transformation" and a "camera transformation," are needed to calibrate our test system ... superimposition to show, for instance, the location of special parts within an engine. ... we hope to encourage applications not only of "virtual environments" (imaginary worlds), but ...

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[PDF] Gamebots: A 3D virtual world test-bed for multi-agent research

R. Adobatati, A.N. Marshall, A. Scholes, S. Tejada, ... - Proceedings of the ..., 2001 - Citeseer

... all game logic and object interaction under Unreal Tournament while the main game engine handles the ... with the bots is an effective method for researchers to evaluate, diagnose and test their bots ... in this 3D virtual environment, the game can be paused at any point and the ...

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Evaluation of the effects of frame time variation on VR task performance

B. Watson, V. Spaulding, N. ... - ... of VRALIS'98, 1998 - doi.ieeecomputersociety.org

... Success of the placement task was measured by testing the location of the target object; it had to be completely ... of 50 - sort(2) x 30 = 8 ms), which we cannot consistently teach on our Crimson Reality Engine with the ... Certainly virtual applications ate moving towards significantly ...

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Real-time computerized engine analyzer using multiple analog-to-digital ...

S. Meissner, S. Meyers, C. Lambach, G. Stern, J. ... - US Patent ... 1996 - Google Patents

... capability of expansion to perform other engine test functions by adding other test modules. ... analog sample and display circuitry (the ability to provide high speed, virtual real-time ... is: 1. An apparatus

for monitoring waveforms of an internal combustion engine, comprising: means ...

[PDF] Digital Testing in the Context of Digital Engineering: Functional Virtual Proto-

RR Ryan VDI BERICHTE, 1999 reden.nf

... Figure 15. Template-based Engine Mount Design System Page 17. ... To simultaneously reduce the overall development time, it is necessary to automate the virtual prototyping process. ... Development engineers, analysts, and test engineers. Although this cooperation may not be ...

Cited by: 6 - Related articles - Full Article - All 3 versions

[PDF] Virtual graphics processor for embedded real time display systems

TG Denison, JG Fisher, SE Lindley, TA ... - US Patent ... 1997 - Google Patents

... System may be used, however, the executable code must be 45 qualified through a testing procedure to ... interface (video library) 28, and a graphics logic unit (also known as a screen engine) 30. ... The output of the virtual graphics processor is a series of calls to the image control ...

Cited by: 0 - Related articles - Full Article - All 6 versions

[PDF] ... and emissions prediction system for on-board diagnostics and engine...

CM Atkinson, TW Long, ET ... - PROGRESS IN ... 1998 - atkinsonic.com

... The excellent generalization capabilities achieved through on-line learning means that the engine control system ... PROOF OF CONCEPT VIRTUAL SENSOR DEMONSTRATION - II ... the measured speed and power characteristics of an arbitrary transient engine test cycle used ...

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[PDF] ... and testing of a fingertip tactile display for interaction with virtual and ...

NJM Patrick - 1990 - dspace.mit.edu

... Reference input to a control system RE Remote Environment t-Test value Tic ... providing visual information through all of the cockpit windows; audio information of engine noise and ... For instance, a person interacting with a virtual sculpture would be more overwhelmed by ...

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A testbed for studying and choosing predictive tracking algorithms in virtual ...

JJ Lai/Co - Proceedings of the workshop on Virtual environments ... 2003 - portal.acm.org

... make a subclass off of the Predictor abstract base class which contains the virtual prepare and ... the results for both tabular and graphical display according to the particular test run. ... The Signal Analysis component also connects to the MATLAB engine so it can utilize MATLAB's ...

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KL Butler, M Ehsani, P Kamath - IEEE transactions on ... 1989 - psfserver.tamu.edu
... A table is included which compares performance parameters such as fuel consumption and emissions for each simulation study. ... The power plant is shown in Fig. 4. Table I shows the engine and vehicle specifications utilized to design the conventional drive train ...
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[PDF] Integrated, high-fidelity, engine-in-vehicle simulation of the international ...
DN Assanis, ZS Filipi, S Gravante, D ... - SAE ... 2000 - ms.engine.unimich.edu
... hence the resistance load felt by the engine ... constant vehicle speed on varying terrain to complex speedload cycles, such as the ones used for emission testing ... As mentioned earlier, the simulation is configured as a feed-forward system, where everything starts with the driver ...
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[PDF] A Multi-Megavoxel Volumetric 3-D Display System for Distributed ...
GE Favaleira, DM Hall, M Giovinco, J Nardoli, RK ... - from the "Application of ... 2001 - Citeseer
... As well-documented in [2], volumetric displays can create 3-D imagery via the emission or relaying ...
Fig. 5 is a photograph of the projection engine, projection optics (inside the housing), and the ...
A software-based simulation of the volumetric display was created as an element of the ...
Cited by: 11 - Related articles - View as HTML - All 2 versions

[PDF] Updated emissions from ocean shipping
JJ Corbett, HN Koehler - J. Geophys. Res. 2003 - ocean.udel.edu
... or that very high resolution be used in classifying vessel types and engine characteristics into ...
Using Monte-Carlo simulation, we evaluated the impact of simultaneously varying each parameter ...
A triangle distributions on the estimates for fuel consumption and emissions for each ...
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[PDF] Charging on vehicle speed and its implications for assessing vehicle emissions
SD Reevers, DC Carsey - Atmospheric Environment, 2005 - Elsevier
... emissions over any drive cycle and aims to provide a more realistic simulation by incorporating ...
to calculate engine speed and torque, which is then combined with engine maps to ... nature of speed ...
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A Wavelet Synthesis Technique for Creating Realistic Virtual Environment Sounds

TP Caudill - MIT Press

... Figure 1 graphically illustrates the wavelet transform ... The air-plane engine sound can be converted into a car sound by de-emphasizing the approximation coefficients ... is important for being able to reliably control the sound synthesis from a virtual environment simulation system ...
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VEHICLE BATTERY STATE OF CHARGE INDICATOR

J Paladino - 2008 - freepatentsonline.com

... 12 is a graphical illustration of determination of the state of recovery of the target battery. ... The torque versus current cranking requirements for large diesel engines are well known over a broad ... Cranking time until engine start is measured and thus the rate at which current was ...

[PDF] Energy and emission aspects

RTM Smokers, A.J. Dijkhuizen, R.G. Winkel, R. Kost, R ... - 130-202-177-102

... But when a diesel engine is used, the fact that it is only used near or at its optimum efficiency point will ... This is a Topic Report in which simulation results are presented, obtained with ADVISOR, of the energy consumption of various hybrid ... Engine Model 1NZ-FXE 5E-FE ECA ...
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[PDF] Process simulation to make personalisation economically viable

C.M. Eckert, DC Wynn, P.J. Clarkson, S Black - 2008 - www-edc.eng.cam.ac.uk

... flexibility is achieved through a platform with would include a common chassis, engine and power ... For each car different versions are offered, eg. a petrol and a diesel model might ... Table 1 Summary of the simulation results shown in Figure 5. Values indicate cost in designer ...
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[BOOK] Smart Driver Training Simulation: Save Money, Prevent

WD Kappler - 2008 - books.google.com

... For example, Knie (1994) believes this accounts for the success of the diesel engine, which is a piston engine ... accounts, he believes, for the failure of the NSU/Wankel project (not a piston engine), which may ... But which are the basic issues and models behind driving simulation? ...

